# Wyoming Makes Tremendous Forward Stride

Harvesting Alfalfa Grown by Irrigation.

Grand Canyon of the North Platte in Wyoming.

A Wyoming Irrigated Garden.



### FACTS ABOUT WYOMING.

-	
- 71	Area
Q	Area subject to irrigation
ž	Area of coal lands
ı	Area of coal lands
n	Foremost in application Carey desert land act.
4	World's famous rendezvous for large game, Storehouse of almost every known mineral,
3	Largest deposits of iron ore known to the world.
	Numerous large and productive oil fields.  Natural gas in commercial quantities.
-	MARKETI WI BUS III COMMITTE CICK ACCURATE CASES

Incre Depo State Bend School	ase over 1904 sits, per capita 's bonded debt led debt (13 countles) ol district bonds (all counties).	110 200,000 1,064,140 237,364	56 24 00 00 00
State Total Incre	l earnings state government levy l valuation all property (assessment returns) sase over 1904 ral production—	48,826,940 2,129,991	55 80
	Coal, tons (estimated), 5,130,260	100,000 340,000 25,000	00
To	otal value mineral production for 1905.	_	_
	xpended in development and permanent work (exclusive of coal mining)		00

	Total value mineral production for 1905	\$16,218,280	(
The second secon	Expended in development and permanent work (exclusive of coal mining)  Number and value of livestock— Sheep, 3,721,830 Cattle, 734,675 Horses, 124,612 Mules, 1,247 Swine, 8,722	14,887,320 14,693,500 4,984,480 62,350	0000
	Total value livestock in Wyoming at close of 1905  Wool production in 1905, 30,180,000 pounds. Increase in value over 1904. Sheep marketed in 1905 (including lambs) Value of sheep and lambs marketed.	810,000 1,459,338 5,837,352	1

	Mules, 1,247		cated in Wyoming-the Shoshone in	forty-two miles, irrigating 80,000 acres.	The Pathf
				have water in the Corbett canal in 1907.	Teer or Mercer
	Wool production in 1905, 30,180,000 pounds	close of 1905\$34,714,870 00 6,036,000 00	retaining dam of the former will be the	This canal will cover books acres	a shore line o
	Inorgana in value over 1904	810,000 00 1	largest in the world and will cost a vast sum of money. Surveys for both pro-	he eighty miles and will cost \$1,000,000.	TIGHTO TIACT
0	Sheep marketed in 1905 (including lambs). Value of sheep and lambs marketed	5.837.352 00 1	jects were completed last year, and ac-	The bigh line canal will have a total	Platte river i
	Total value exports of wool and mutton	11.873.352 00 1	tual construction work was commenced		required to f
	Cattle marketed in fl1905	6 639 000 00	during the year just closing.	Another canal twenty-five miles long	ordinary sea
	Horses shipped out of the state	43.000	The Shoshone project involves the construction of a dam 310 feet in height.	and costing \$200,000, will rectain 30,000	the spillway
	Value of horses marketed	1,720,000 00	It will be built a distance of sixty feet	The big Shoshone reservoir will im-	flow of the l
	Total value livestock exports, including We	001 20.273,352 00 1	from the bed of the stream to bedrock, and will therefore be 250 feet high on	pound 560,000 acre-feet, or 24,000,000,000 cubic feet of water, sufficient to reclaim	water from
	Trotal volue livestock wool and mineral e	xported	the lower side. It will have a base 108	1980 000 acres of land.	Tue mist
	Total value agricultural products	3.011.000 00 1	feet long at the base and 180 feet long at the top. The spillway will empty into a	The total cost of the project follows:	dam will be
	Value manufactured products	1.110,000 00	tunnel which will be driven through a	Dam and auxiliary structures, \$515,780; Corbett tunnel, \$594,000; twenty-five-mile	irrigate 30,000
9	Value of farm and grazing lands New canals and extensions (miles, govern	ment and private) 23,179,810 00	solid mountain of granite a distance of 400 feet, through which the water will	canal, \$200,000; high line canal, \$2,500,000; Corbett canal, \$1,000,000. Total, \$4,215,730.	county and v
	Cost of construction	16,969,000 00 1	find its way back into the Shoshone	Corbett canal, \$1,000.000. Total, \$4,215,730. Lands under the Shoshone project can	The second
	Lands reclaimed, acres	1,177,500	river. The first canal, or high line canal, as it is known, will be taken out at the	he madelmed at an average cost of \$30	Douglas can
	Tands leased by the state, acres	2.770.000 I	dam which will be located fust below	per acre, which, considering the ideal	miles long, v
	Receipts, rentals state lands	141,226 68 [	the forks of the North and South Sho-	Cilifiate and the recent about	county.
	Educational work total expenditures in S	tate for 1905 392.872 00 1	shone. This canal will run a distance of 2,000 feet in a tunnel through solid rock.	What Pathfinder Soheme Means.	The third
	New ratiways completed in Wyoming du	ring 1905, miles 100 l	the passage being known as the Corbett		canal, which
	Radiroads under construction at close of New railway projected for 1906, miles	f year, miles	tunnel, immediately after leaving the dam. The distance from the dam to the	The Pathfinder project comprises a monster dam on the Platte river three	northern Las
	The state of the s		mouth of the conven is three miles and	miles below the mouth of the sweetwater	Will cost \$3,0
		A sub-less to develop and William I	In traversing this distance the high line	river. This dam will be 200 feet nigh,	next and wi
	Cheyenne, Wyo., Dec. 30.—The above	the mining industry of Wyoming, from which we may expect great things dur-	canal will pass through tunnels aggre- gating one mile in length. The water is	feet long at the top, and will be located	\$2,500,000, and
	figures will give some idea of the pres- ent greatness of the young state of	ing the next few years.	finally carried back into the river chan-	between granite walls in a narrow dan-	which all is
	Wyoming, and the possibilities for still	Immense Coal and Iron Deposits.	nel and will flow down to the diversion point near Corbett, a distance of six-	thickness of sixteen feet on top. It Will	The Inters
	greater prosperity. One need but glance	Wyoming has no less than fifteen large	teen miles. The total length of this canal	be an arch dam and will be 50 000 ouble	and this will It will cost \$4
	at the bank deposits, and the value of	coal mines, and twenty smaller ones,	will be twenty-two miles, and its waters will irrigate a tract of 20,000 acres. At	mately \$500,000. There will be 58,000 cubic yards of masonry, and 5,000 yards of rock	acres in W
	the exports of coal, iron, gold, copper, shiver, sheep, wool, cattle, horses, hogs,	with a total production annually of over 5,000,000 tons, and experts say the coal	Hagiesnest it will be divided into this		Contracts
	and the value of the agricultural and	deposits of the state have scarcely been	main laterals for the irrigation of 20,000	on bedrock, and it is not headen with the	forty-five m
	manufactured products to become thoroughly convinced that Wyoming now	touched as yet. New mines are being	we to send herd in the Charlens	Shockone dam Over 40,000 barrels of Co-	expected the
	ranks with her sister states of the west	opened in all parts of the state, and in- side of a few years the production will	river sixteen miles below the dam site,	dam site will alone cost \$120,000. There.	
	in wealth and general prosperity. The banks of the state show deposits of over	be double what it is today.	dam will be put in at that point. The	will be 400 pounds of sement to the bar-	Cost Wil
	\$11,000,000, and this with a population of	Wyoming has the largest known de- posits of iron ore in the world. One of	first section will be a tunnel three and	rel, and the material will be laid down in Casper at a cost of \$1.50 to Uncle Sam.	The Pathfi
	less than 102,000, which is a per capita deposit of over \$110 for every man, wo-	these deposits is located at Sunrise, in			the construc
	man and child in the state. This show-	Laramie county, and another near Raw- lins, in Carbon county, and there are	I was ton will ontor the low-line canal which	COSE IN EXCESS OF AMON DOS SERVED	the headgate
	ing surpasses that of any other state	others. At the present time the entire	will extend to Francie, a distance of	· about \$150,000.	
	in the Union. The wonderful showing in bank deposits is accounted for by the	output is shipped out of the state, but the time is not far distant when steel			
	unusual returns from the livestock in-	works will be established in the state			
	dustry, supplemented by the mining and agricultural industries and manufactur-	and the raw material manufactured into			
	ing, which brought to the miner, stock-	the finished product at home, thus fur- nishing labor for thousands of men and			
	man and manufacturer a total of \$66,179,- 399. Wyoming produced this handsome	increasing the demand for the state's ag-			
	return during the year just closing, and	ricultural products.  Among the minerals found in Wyoming			知る時間
	it is only fair to presume that the state	in addition to coal, iron, copper, silver			
	will do even better during the year just dawning.	and gold, are the following: Bituminous	1 Bayes	O. Pings	D-CHOSPINISTERM
11 11	Wyoming's chief industry at present	shale, volcanic ash, graphite, asphaltum,		MONTANA	

## Railroads Building to Mines.

In mining Wyoming did not make as much progress during 1905 as in the previous year. A vast amount of development work was done, especially in the Grand Encampment, South Pass, Douglas and Copper Mountain fields, but there was not the same activity as in the previous year. The reason for this was due to the fact that two of the leading camps anticipate early railway communication rather than to the lack of transportation, such as has been the excuse for many years. Grand Encampment looks forward to the early completion of two lines of railway connecting the district with the outside world, and the Copper Mountain district is awaiting the arrival of a branch road which will run within a few miles of the In mining Wyoming did not make as dium. awaiting the arrival of a branch road which will run within a few miles of the numerous mines. With railroad communication, the mines of these camps will be developed on a large scale, and many new properties will be opened. Anticipating the arrival of the railroads, which will make shipping propositions of many rating the arrival of the railroads, which will make shipping propositions of many properties that cannot now be worked at a profit, eastern syndicates are making heavy investments, and preparations are being made for active work. In brief, Wyoming mines, outside of coal mines, and possibly one gold mine at South Pass and the iron mines of the Sunrise district, have amounted to very little until now, for the very good reason that all were located remote from lines of railway, and without transportation facilities, the returns would not warrant rallway, and without transportation facilities the returns would not warrant the outlay. But now, with the prospect of the early completion of two addinal lines of railway across the state om east to west, one from north to south, and with the building of numerous feeders, a new era is dawning for

man and manufacture.

399. Wyoming produced this handsome return during the year just closing, and it is only fair to presume that the state will do even better during the year just will do even better during the year just shale, volcanic ash, graphite, asphaltum, manganese ores, epsom salts, building dawning.

Wyoming's chief industry at present is the raising of livestock and wool, but the mining industry, and irrigated agriculture are crowding closely upon the heels of the livestock interests, and in the end one or both will win out.

shale, volcanic ash, graphite, aspination, manganese ores, epsom salts, building stones of all kinds, including marble and only gypsum, plaster of parls, natural plaster, clays, tin, salt, quartz, glass sand, mica, feldspar, sulphur, bismuth, aluminum, tale, natural pigments, semi-precious stones, asbestos, soda, lime-precious stones asbestos asbestos and soda stones asbestos asbest precious stones, asbestos, stone, hematite, platinum, uranium, iri-

In the Salt Creek fields the Belgo-American company brought in several new wells, and the output of the Casper refinery was increased materially. In Uinta county a number of independent companies brought in wells, but few

shipments were made.

In the Douglas fields work has been carried on steadily, and during the year large quantities of natural gas were encountered. During the coming year the oil inter-

ests will expend more money than last year, and it is expected that at the close of 1906 the oil industry will take an important place among the other industries of the state.



required to fill the big reservoir. During ordinary seasons the flow of water over the spillway will be sufficient for all needs, but in short seasons the regular flow of the Platte will be augmented by water from the big reservoir as it is

needed.

The first canal below the Pathfinder dam will be known as the Casper canal.

This will be eighty-three miles long, will irrigate 30,000 acres mostly in Natrona county and will cost approximately \$450,

The second canal will be known as the Douglas canal. This will be seventy miles long, will cost \$400,000, and will reclaim 39,000 acres mostly in Converse

county.

The third will be the Goshen Hole canal, which will be 200 miles long and will reclaim 250,000 acres, mostly in northern Laramic county. This canal

northern Laramie county. This canal will cost \$3,075,000.

The Fort Yaramie canal will be the next and will be 123 miles long, costing \$2,500,000, and irrigating 149,000 acres, of which all is in Laramie county except 30,000 acres, which is in Nebraska.

The Interstate canal will be the next, and this will be ninety-five miles long. It will cost \$4,000,000 and will reclaim 30,000 acres in Wyoming and 100,000 acres in Nebraska.

Contracts have been let for the first forty-five miles of this canal, and it is expected the project will be completed in time to run water through it during the coming summer.

### Cost Will Reach \$11,000,000. The Pathfinder project contemplates

the construction of numerous dams at the headgates of the several canals, tun-

nels, flumes, etc., etc. The total cost of dam, tunnels, canals, etc., will approximate \$11,000,000.

Numerous enterprises have been undertaken by private capital, and among the more important is the Oregon Basin project, in Big Horn county, in the northern part of the state. This project contemplates the reclamation of 215,000 acres, at an estimated cost of \$500,000, but it is known that these figures are very low, and that when the work is completed more than a million and a quarter dollars will have been spent. The project contemplates taking water from the south fork of the Shoshone river. The canal will be twenty-six miles long and will empty into Oregon basin, a natural reservoir site. This canal will be one of the largest ever constructed for irrigation purposes, and will be sixty feet wide on top. It will be ten feet deep and will carry 2,000 cubic feet of water, or about 21,750,000 cubic feet of water, or about 21,750,000 cubic feet. The total length of canals under this enterprise will be 200 miles. A large force of men and teams, with a huge steam shovel are now at

Profit of Agriculture.

New Railroads Coming.

from Guernsey across the state to Salt Lake City. General Manager Holdrege of the Burlington announced from Omaha recently that this extension will be built just as soon as the work can be done.

miles. A large force of men and teams, with a huge steam shovel are now at work on the diversion canal, and approximately \$25,000 is being expended each month. The promoters hope to place water on the lands during the coming just as soon as the work can be done.

The Burlington and Union Pacific are now engaged in a construction war in western Nebraska. The former is building up the Platte valley from Broken Bow to connect with its Alliance-Guernsey line at Bridgeport, and the Union Pacific is building a line from North Platte, Neb., up the Platte river and on the opposite side of the stream from the Burlington. It has not been announced just where this line is going, but it is believed it will be completed as far as Guernsey and Sunrise, in the iron fields of Northern Laramie county as soon as possible so the overland can get some of the iron traffic, and the rush of business that is bound to come with the completion of the Goshen Hole, Fort Laramie, Interstate and other canals under the Pathfinder project and the resultant settlement of several hundred thousand acres of land. It is reported that from Guernsey the Union Pacific will push on in a northwestern direction

that the total valuation of Wyoming a garcultural products aggregated \$15,000,000. The livestock industry, despite the disappearance of the big herds, continues to grow rapidly, and stockmen are amassing large fortunes. The table at the head of this article shows the number of sheep, cattle, horses and swine marketed during the year, which, with a production of over \$30,000,000 pounds of wool, netted the stockmen of Wyoming over \$20,000,000. Or course, this was not clear gain, but it is safe to say that more than one-half of this amount was net profit. During the past few months hundreds of thousands of breeding ewes have been imported to Wyoming, and another year the increase will more than double the exportations during the past year. There is little danger of the range becoming overcrowded, however, for the flookmasters can at any time cut down their holdings, for the feed however, for the flookmasters can at any time cut down their holdings, for the feed however, for the flookmasters can at any time cut down their holdings, for the feed however, for the flookmasters can at any time cut down their holdings, for the feed home of the range becoming overcrowded, however, for the flookmasters can at any time cut down their holdings, for the feed home of the contracts have been let. There will be two miles between Hermosa Junction and does not wish to hold.

The year 1906 will be a banner one in the livestock industry of Wyoming, and especially in sheep and wool. It is expected that in 1906 Wyoming will become the banner sheep and wool state, where as she is now second to Montana. Wyoming, and especially in sheep and wool at the wool proposes to build over seventy-five miles between Hermosa Junction and Dale Creek, and the balance of the double track will be put in Lookout to Montana. Wyoming will be one of the form a point seventy five miles between the union Pacific will double track its entire line in Wyoming the banner sheep and wool at the wool proposes to build over seventy-five miles between the union Paci

will double track its entire line in Wyoming.

The Burlington has also planned to do considerable work in the state in laddition to the building of the branch from Frannie to Thermopolis and the extension from Guernsey to Salt Lake City. One of their projects is the building of aline from a point between Cheyenne and Sterling, on the Cheyenne-Holdrege line westward to Fort Collins, and then on the portion of Wyoming, running south of Grand Encampment, with a branch to that place, and continuing on to Salt Lake. This line, with the building of the Guernsey-Salt Lake extension, will give the Burlington two direct routes from the east and southeast to Salt Lake. It is also proposed to build from Lyons, Colo., northward through Wyoming, crossing the Guernsey-Salt Lake extension and connecting with the Frannie-Thermopolis line at Thermopolis. This will give the Burlington a short cut from Denver and the southwest to the northwest, via its Billings line and the Northern Pacific connection. Wyoming is now anticipating with much pleasure the early coming of several lines of railroad, and with the railroads a great deal of additional development, pleasure the early coming of several lines of railroad, and with the railroads a great deal of additional development, growth, increase in population and greaber prosperity. During the past six months many rumors of prospective railroad building have filled the air, and as no one except the directors of the several roads interested know the plans, it is impossible to tell exactly what this or that railroad will do. Wyoming has been filled with surveying corps for several months, and lines of survey are being run in all directions. Several outfits are still in the field, although surveying at this season of the year is very difficult and expensive. But this only illustrates the great haste of the roads to carry out their plans and get everything in readiness for work of construction early in the spring. That Wyoming is to be the scene of great activity in railroad building during 1906 is certain, and at the close of the year there will be many hundreds of miles of new railway to be added to the mileage in this state.

There are now being built in the state five lines of railway, and one piece of road was completed during the past year—the branch of the Colorado Fuei & Iron company, running from Sunrise, in Laramie county, a distance of thirteen miles to the Chigao iron mines.

Work was started during the summer on the Northwestern's extension from Casper west, and the grade has been completed to the new town of Shoshoni, near the Wind River reservation. Rails have been laid over two-thirds of the distance from Casper to Shoshoni, and the state to a connection with the Oregon Shoshoni in a few weeks. This road will be built on to Lander in the spring, and from that point pushed on across the state to a connection with the Oregon Short Line in Idaho, and possibly to Sait Lake City and the Pacific coast. A branch will be built in the spring from Shoshoni northward to Thermopolis.

The Northern Pacific has about completed a branch line from Red Lodge, Mont., southwest to some valuable coal fields near Clark, Wyo.

# Oregon Short Line's Campaign.

The Oregon Short Line is to be represented in the railroad construction campaign, and will build a line from Idaho into the Jackson's Hole country of western Wyoming. Surveyors are now in the field and the route has not been decided

the close of the year there will be many hundreds of miles of new railway to be added to the mileage in this state.

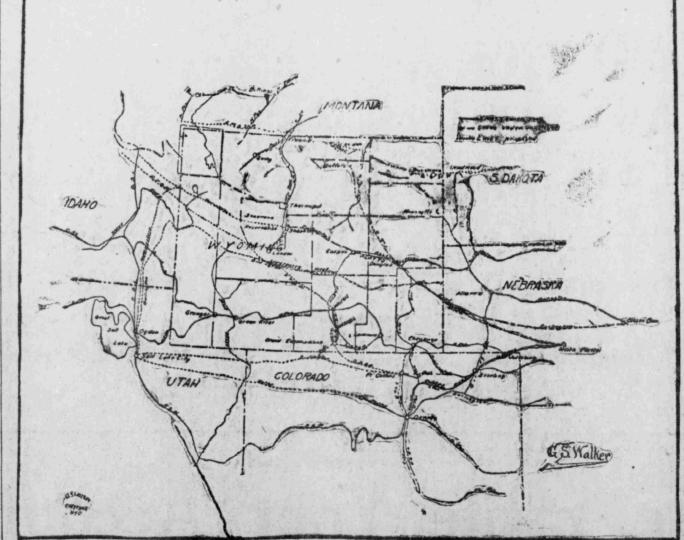
There are now being built in the state five lines of railway, and one piece of road was completed during the past year—the branch of the Colorado Fuel & Iron company, running from Sunrise, in Laramic county, a distance of three miles to the Chigao iron mines.

Work was started during the summer on the Northwestern's extension from Casper west, and the grade has been completed to the new town of Shoshoni mear the Wind River reservation. Rails have been laid over two-thirds of the distance from Casper to Shoshoni may the track will be law weeks. This road will be built on to Lander in the spring, and from that point pushed on across the state to a connection with the Cregon Short Line in Idaho, and possibly to Sait Lake City and the Pacific coast. A branch will be built in the spring from Shoshoni northward to Thermopolis.

The Northern Pacific has about completed a branch line from Red Lodge, Mont., southwest to some valuable coal fields and the route has not been deeded upon.

The Colorado A country to device the plant of the pacific of the state of the proposed to the pacific has been surveyed from Deaning, proposes to do so at once, and a line shout of the state of the Pacific coast. A branch will be built in the spring from Shoshoni northward to Thermopolis.

The Chicago, Burlington & Quincy is now building a line from Frannie, on its Tribuea Cody line, south to Thermopolis of the grade has been completed to the pack of th



Map of Wyoming, Showing Railroad Extensions, Under-Way and Projected.